1	We claim:
1	1. An accessor moveably disposed in a data storage and retrieval system, wherein said
2	data storage and retrieval system includes one or a plurality of portable data storage media,
3	comprising:
4	an accessor controller;
5	a work queue stored in said accessor controller, wherein said work queue comprises one or
6	more work requests;
7	an inventory stored in said accessor controller, wherein said inventory comprises the identity
8	of each of said one or a plurality of portable data storage media;
9	wherein said accessor controller creates and maintains said inventory and said work queue.
1	2. The accessor of claim 1, wherein said work queue further comprises one or more
2	work entries, wherein said one or more work entries are created by said accessor controller, and
3	wherein each of said one or more work entries comprises one of said one or more work requests.
1	3. The accessor of claim 2, wherein said accessor further comprises an accessor
2	identifier, and wherein each of said one or more work entries comprises:
3	the accessor identifier for the accessor performing that work entry; and
4	the status of that work entry.
1	4. The accessor of claim 3, wherein said status is selected from the group consisting of
2	active, completed, completed with permanent error, pending, and error recovery.
1	5. The accessor of claim 1, further comprising:
2	a lifting servo section comprising;
3	a centering cam;

a centering plunger, wherein said centering plunger has a first end and a second end, and

- wherein said first end extends outwardly from said lifting servo section and said second end is 5 6 disposed adjacent said centering cam. The accessor of claim 5, further comprising: 1 6. a gripper mechanism frame disposed on said centering cam; and 2 3 a gripper mechanism disposed on said gripper mechanism frame. An accessor moveably disposed in a data storage and retrieval system, wherein said 7. 1 data storage and retrieval system includes one or a plurality of portable data storage media, 2 3 comprising: an accessor controller; a work queue stored in said accessor controller; an inventory stored in said accessor controller; a lifting servo section comprising; a centering cam; a centering plunger, wherein said centering plunger has a first end and a second end, and 10 wherein said first end extends outwardly from said lifting servo section and said second end is disposed adjacent said centering cam; 11 a gripper mechanism frame disposed on said centering cam; and 12 13 a gripper mechanism disposed on said gripper mechanism frame. 1 8. A data storage and retrieval system, comprising: one or a plurality of portable data storage media; 2 two or more accessors moveably disposed therein; 3
 - wherein each of said two or more accessors communicate with one another using said data

a data and control network;

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an accessor controller; 7 a work queue stored in said accessor controller; 8 an inventory stored in said accessor controller, wherein said inventory comprises the identity 9 of each of said one or a plurality of portable data storage media; 10 wherein said accessor controller creates and maintains said inventory and said work queue. 11 9. The data storage and retrieval system of claim 8, wherein said data storage and 1 retrieval system is capable of communication with one or more host computers, and wherein one or 2 more of said one or more work requests are provided by said one or more host computers. The data storage and retrieval system of claim 8, further comprising an operator 10. input station, wherein said two or more accessors and said operator input station communicate using 3 said data and control network, and wherein one or more of said one or more work requests are provided by said operator input station. The data storage and retrieval system of claim 8, wherein said two or more accessors 1 11. each further comprise: a lifting servo section comprising; 3 4 a centering cam; 5 a centering plunger, wherein said centering plunger has a first end and a second end, and wherein said first end extends outwardly from said lifting servo section and said second end is 6 7 disposed adjacent said centering cam. The data storage and retrieval system of claim 11, wherein said two or more 12. 1 accessors each further comprise: 2

and control network, and wherein each of said two or more accessors comprises:

a gripper mechanism frame disposed on said centering cam; and

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- 1 13. A method to perform a work request provided to a data storage and retrieval system,
- 2 wherein said data storage and retrieval system includes two or more moveable accessors in
- 3 communication with one another and two or more accessor controllers, wherein each accessor
- 4 comprises an accessor controller and a work queue stored in that accessor controller, and wherein
- 5 said two or more accessors include a first accessor and one or more remaining accessors, said
- 6 method comprising the steps of:

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- 7 providing a work request to each of said two or more accessors;
 - creating by each of said two or more accessor controllers a pending work entry comprising said work request;
 - adding said pending work entry to the work queue stored in each of said two or more accessor controllers;
 - communicating a notification from said first accessor to said remaining accessors that said first accessor is initiating said pending work entry;
 - acknowledging said notification by said one or more remaining accessors;
- reporting by said first accessor to said one or more remaining accessors the status of said
 pending work entry; and
- updating the work queue disposed in each of said two or more accessors to include the status
 of said pending work entry.
 - 14. The method of claim 13, wherein said data storage and retrieval system is capable of communication with one or more host computers, further comprising the step of providing said work request by said one or more host computers.
 - 15. The method of claim 13, wherein said data storage and retrieval system further

- 2 comprises an operator input station, further comprising the step of providing said work request by 3 said operator input station. 16. The method of claim 13, wherein said data storage and retrieval system further 1 comprises an import/export controller, further comprising the step of providing said work request by 2 3 said import/export controller. 17. The method of claim 13, further comprising the steps of: 1 2 reporting by said first accessor to each of said one or more remaining accessors the 3 completion of said pending work entry; and updating the work queue disposed in each of said one or more accessors to indicate the **4** completion of said pending work entry. 18. A method to provide failover protection in a data storage and retrieval system in the event of an accessor failure, wherein said data storage and retrieval system includes a garage, one or more portable data storage media, two or more moveable accessors, and two or more accessor controllers, wherein said two or more accessors can communicate with one another, and wherein each of said two or more accessors comprises an accessor controller and a work queue stored in that 6 accessor controller, and wherein said two or more accessors include a first accessor and one or more 7 remaining accessors, said method comprising the steps of: 8 providing a work request to each of said two or more accessors; 9 creating by each of said two or more accessor controllers a pending work entry comprising 10 said work request;
 - adding said pending work entry to the work queue stored in each of said two or more accessor controllers;
 - communicating a notification from said first accessor to said one or more remaining

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14	accessors that said first accessor is initiating said pending work entry;
15	acknowledging said notification by each of said remaining accessors;
16	determining if said first accessor reports completion of said pending work entry; and
17	determining if said first accessor can communicate with said one or more remaining
18	accessors.
1	19. The method of claim 18, said method further comprising the steps of:
2	determining if said first accessor has completed said pending work entry; and
3	determining if said first accessor has a portable data storage medium releaseably attached
<u>.</u> 4	thereto.
4 1 2 3	20. The method of claim 19, wherein said first accessor has completed said pending
2	work entry, and wherein said first accessor does not have a portable data storage medium
3	releaseably attached thereto, said method further comprising the steps of:
4	pushing said first accessor into said garage using a second accessor, wherein said second
5	accessor comprises one of said one or more remaining accessors;
6	updating the work queue disposed in each of said remaining accessors to indicate that said
7	pending work entry is completed; and
8	providing an error message.
1.	21. The method of claim 19, wherein said pending work entry has not been completed
2	and wherein said first accessor does not have a data storage medium releaseably attached thereto,
3	further comprising the steps of:
4	pushing said first accessor into said garage using a second accessor, wherein said second
5	accessor comprises one of said one or more remaining accessors;

updating the work queue disposed in each of said remaining accessors to indicate that said

/	pending work entry remains pending; and						
8	providing an error message.						
1	22. The method of claim 19, wherein said pending work entry has not been completed,						
2	and wherein said first accessor has a portable data storage medium releaseably attached thereto,						
3	further comprising the steps of:						
4	pushing said first accessor into said garage using a second accessor, wherein said second						
5	accessor comprises one of said one or more remaining accessors;						
6	extracting said portable data storage medium from said first accessor using said second						
₽₽ 7 £1	accessor;						
1 8	completing said pending work entry;						
7 8 9 0	communicating the completion of said pending work entry to each of said one or more						
10	remaining accessors;						
1 1 2 1 2	updating the work queue disposed in each of said one or more remaining accessors to						
	indicate that said pending work entry is completed; and						
1 3	providing an error message.						
1	23. The method of claim 22, wherein said first accessor further comprises:						
2	a lifting servo section;						
3	a centering cam disposed on said lifting servo section;						
4	a centering plunger, wherein said centering plunger has a first end and a second end, and						
5	wherein said first end extends outwardly from said lifting servo section and said second end is						
6	disposed adjacent said centering cam;						
7	said method further comprising the steps of:						
8	impacting said centering cam with said centering plunger; and						

	9			rotating	g said centering cam about 90 degrees.
	1 .			24.	The method of claim 18, wherein said pending work entry includes retrieving a
	2	- (designa	ated one	e of said one or more portable data storage media, further comprising the steps of:
	3			reposit	ioning said first accessor;
	4			attemp	ting to retrieve said designated portable data storage medium;
	5			determ	ining if said designated portable data storage medium was successfully retrieved;
	6			operati	ive if said designated portable data storage medium was successfully retrieved,
	7		comple	eting sa	id pending work entry using said first accessor; and
ļ. Pī	8			operat	ive if said designated portable data storage medium was not successfully retrieved,
	9		provid	ing an e	error message that said designated portable data storage medium was not retrieved.
	1			25.	The method of claim 18, wherein said data storage and retrieval system further
	2		compr	ises a d	ata storage device, and wherein pending work entry includes inserting a designated
	3		one of	said on	e or more portable data storage media in said data storage device, said method further
	4		compr	rising th	e steps of:
THE STATE OF THE S	5			reposi	tioning said first accessor;
	6			attem	pting to insert said designated portable data storage medium in said data storage
	7		device	е;	
	8			deterr	nining if said designated portable data storage medium was successfully inserted in
	9		said d	ata stora	age device; and
	10			opera	tive if said designated portable data storage medium was not successfully inserted in
	11		said d	ata stor	age device, providing an error message.
	1			26.	The method of claim 18, further comprising the steps of:
	2			detect	ting by said first accessor a mechanical failure;

3	communicating said mechanical failure to each of said remaining accessors;
4	moving said first accessor to said garage;
5	operative if said pending work entry has been completed, updating said work queue to
6	indicate that said pending work entry is completed;
7	operative if said pending work entry has not been completed, updating said work queue to
8	indicate that said pending work entry remains pending; and
9	providing an error message.
1	27. The method of claim 26, wherein said first accessor has a portable data storage
2	medium releaseably attached thereto, further comprising the step of:
3	extracting said data storage medium from said first accessor using one of said one or more
4	remaining accessor;
5	completing said pending work entry;
6	updating said work queue to indicate that said pending work entry is completed; and
7	providing an error message.
1	28. The method of claim 18, further comprising the steps of:
2	detecting by said first accessor a logical error;
3	communicating said logical error to each of said remaining accessors;
4	moving said first accessor to said garage;
5	operative if said pending work entry has been completed, updating said work queue to
5	indicate that said pending work entry is completed;
7	operative if said pending work entry has not been completed, updating said work queue to
3	indicate that said pending work entry remains pending; and
)	providing an error message

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1	29. The method of claim 28, wherein said first accessor has a data storage medium
2	releaseably attached thereto, further comprising the steps of:
3	extracting said data storage medium from said first accessor using one of said one or more
4	remaining accessors;
5	completing said pending work entry;
6	updating said work queue to indicate that said pending work entry is completed; and
7	providing an error message.
1	30. The method of claim 18, wherein said pending work entry comprises retrieving a
2	designated portable data storage medium from a source location and disposing that designated
3	portable data storage medium in a destination location, further comprising the steps of:
4	determining if said designated portable data storage medium is releaseably attached to said
5	first accessor;
6	operative if said designated portable data storage medium is not releaseably attached to said
7	first accessor, determining if said designated portable data storage medium is disposed in said
8	source location;
9	operative if said designated portable data storage media is not releaseably attached to said
10	first accessor, and if said designated portable data storage medium is not disposed in said source
11	location, determining if said designated portable data storage medium is disposed in said destination
12	location;
13	operative if said designated portable data storage media is not releaseably attached to said
14	first accessor, and if said designated portable data storage medium is not disposed in said source
15	location, and if said designated portable data storage medium is not disposed in said destination

location, determining that said designated portable data storage medium is on the floor of said data

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storage and retrieval system; and

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18		provid	ding an error message to the system user.
1		31.	A method to add a portable data storage medium to a data storage and retrieval
2	system	n, where	ein said data storage and retrieval system comprises an accessor, an import/export
3	station	ı, and a	plurality of storage slots, wherein said accessor comprises an accessor controller
4	compr	rising au	n inventory of portable data storage media stored in said data storage and retrieval
5	system	n, said r	method comprising the steps of:
6		dispos	sing a designated portable data storage medium in said import / export station;
7		retriev	ving said designated portable data storage medium;
8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		deterr	mining identification information for said designated portable data storage medium;
		assigr	ning by said accessor controller a storage location, wherein said storage location
10	compr	ises on	e of said plurality of storage slots; and
11		addin	g by said accessor controller said identification information and said storage location
1 2	to said	l invent	ory.
1		32.	The method of claim 31, wherein said accessor comprises a bar code reader and
2	where	in said	designated portable data storage medium comprises a bar code, wherein said
3	determ	nining s	step further includes the step of reading said bar code using said bar code reader.
1		33.	The method of claim 31, wherein said data storage and retrieval system further
2	compr	ises a d	lata storage device, wherein said determining step further comprises the steps of:

- receiving said identification information from said data storage device. 5
 - 34. A data storage and retrieval system comprising a computer useable medium having

removeably disposing said designated portable data storage medium in said data storage

device; and

2	computer readable program code disposed therein to provide failover protection in a data storage
3	and retrieval system, wherein said data storage and retrieval system includes a garage, one or a
4	plurality of portable data storage media, two or more moveable accessors, two or more accessor
5	controllers, wherein said two or more accessors can communicate with one another, wherein each of
6	said two or more accessors comprises an accessor controller and a work queue stored in that
7	accessor controller, and wherein said two or more accessors include a first accessor and one or more
8	remaining accessors, the computer readable program code comprising a series of computer readable
9	program steps to effect:
10	providing a work request to each of said two or more accessors;
10 11	creating by each of said two or more accessor controllers a pending work entry comprising
12	said work request;
13	adding said pending work entry to the work queue stored in each of said two or more
14	accessor controllers;
15	communicating a notification from said first accessor to said one or more remaining
16	accessors that said first accessor is initiating said pending work entry;
17	acknowledging said notification by each of said remaining accessors;
18	determining if said first accessor reports completion of said pending work entry; and
19	determining if said first accessor can communicate with said one or more remaining
20	accessors.
1.	35. The data storage and retrieval system of claim 34, said computer readable program
2	code further comprising a series of computer readable program steps to effect:

determining if said first accessor has a portable data storage medium releaseably attached

determining if said first accessor has completed said pending work entry; and

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	5	thereto	
	1		36. The data storage and retrieval system of claim 35, said computer readable program
	2,	code fu	rther comprising a series of computer readable program steps to effect:
	3		pushing said first accessor into said garage;
•	4		updating the work queue disposed in each of said remaining accessors to indicate the status
	5, ,	of said	pending work entry; and
	6		providing an error message.
	1		37. The data storage and retrieval system of claim 36, said computer readable program
	2	code fu	rther comprising a series of computer readable program steps to effect:
上 本の本本の本本の	3		extracting said portable data storage medium from said first accessor using one of said one
	4	or more	remaining accessors;
find mil	5		completing said pending work entry;
m ding	6		communicating the completion of said pending work entry to each of said remaining
milit Manife Man	7	accesso	rs;
Ann Ind mill that tun tink	8		updating the work queue disposed in each of said one or more remaining accessors to
	9	indicate	that said pending work entry is completed; and
1	0		providing an error message.
	1		38. The data storage and retrieval system of claim 34, wherein said pending work entry
	2	includes	s retrieving a designated one of said one or a plurality of data storage media, said computer
	3	readable	e program code further comprising a series of computer readable program steps to effect:
. 4	4		repositioning said first accessor;
	5		attempting to retrieve said designated portable data storage medium;

determining if said designated portable data storage medium was successfully retrieved;

7	operative if said designated portable data storage medium was successfully retrieved,
8	completing said pending work entry using said first accessor; and
9	operative if said designated portable data storage medium was not successfully retrieved,
10	providing an error message that said designated portable data storage medium was not retrieved.
1	39. The data storage and retrieval system of claim 34, wherein said data storage and
2	retrieval system further comprises a data storage device, and wherein pending work entry includes
3	inserting a designated one of said one or a plurality of data storage media in said data storage
4	device, said computer readable program code further comprising a series of computer readable
≟ 5	program steps to effect:
5 6 7	repositioning said first accessor;
	attempting to insert said designated portable data storage medium in said data storage
8	device;
9	determining if said designated portable data storage medium was successfully inserted; and
10	operative if said designated portable data storage medium was not successfully inserted,
- 	providing an error message.
1	40. The data storage and retrieval system of claim 34, said computer readable program
2	code further comprising a series of computer readable program steps to effect:
3,	detecting by said first accessor a mechanical failure;
4	communicating said mechanical failure to each of said one or more remaining accessors;
5	moving said first accessor to said garage;
6	updating said work queue to indicate the status of said pending work entry pending work
7	entry; and
8	providing an error message.

1	41. The data storage and retrieval system of claim 34, said computer readable program
2	code further comprising a series of computer readable program steps to effect:
3	detecting by said first accessor a logical error;
4	communicating said logical error to each of said remaining accessors;
5	moving said first accessor to said garage;
6	updating said work queue to indicate that said pending work entry remains pending; and
7	providing an error message.
1	42. The data storage and retrieval system of claim 34, wherein said first accessor further
£ 2	comprises:
3	a lifting servo section;
4	a centering cam disposed on said lifting servo section;
5	a centering plunger, wherein said centering plunger has a first end and a second end, and
6	wherein said first end extends outwardly from said lifting servo section and said second end is
7	disposed adjacent said centering cam;
8	wherein said computer readable program code further comprises a series of computer
9	readable steps to effect causing said centering cam to impact said centering plunger.
1	43. The data storage and retrieval system of claim 34, wherein said pending work entry
2	comprises retrieving a designated portable data storage medium from a source location and
3	disposing that designated portable data storage medium in a destination location, wherein said
4	computer readable program code further comprises a series of computer readable steps to effect:
5	determining if said designated portable data storage medium is releaseably attached to said
6	first accessor;
7	operative if said designated portable data storage medium is not releaseably attached to said

first accessor, determining if said designated portable data storage medium is disposed in said
 source location;

operative if said designated portable data storage media is not releaseably attached to said first accessor and if said designated portable data storage medium is not disposed in said source location, determining if said designated portable data storage medium is disposed in said destination location;

operative if said designated portable data storage media is not releaseably attached to said first accessor and if said designated portable data storage medium is not disposed in said source location and if said designated portable data storage medium is not disposed in said destination location, determining that said designated portable data storage medium is on the floor of said data storage and retrieval system; and

providing an error message to the system user.

44. A data storage and retrieval system comprising a computer useable medium having computer readable program code disposed therein to add a designated portable data storage medium to a data storage and retrieval system, wherein said data storage and retrieval system comprises an accessor, an import/export station, and a plurality of storage slots, wherein said accessor comprises an accessor controller and an inventory of portable data storage media disposed in said data storage and retrieval system, the computer readable program code comprising a series of computer readable program steps to effect:

retrieving a designated portable data storage medium disposed in said import/export station; determining identification information for said designated portable data storage medium; assigning a storage location, wherein said storage location comprises one of said plurality of storage slots; and

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program steps to effect reading said bar code using said bar code reader.

code further comprises a series of computer readable program steps to effect:

receiving said identification information from said data storage device.

wherein said data storage and retrieval system comprises a plurality of storage cells, an import /

export station, two or more moveable accessors in communication with one another, and two or

more accessor controllers, wherein each accessor comprises an accessor controller, a work queue

stored in that accessor controller and an inventory stored in that accessor controller, and wherein

providing a work request to each of said two or more accessors, wherein said work request

creating by each of said two or more accessor controllers a pending work entry comprising

comprises removing a designated data storage medium from said data storage and retrieval system;

The data storage and retrieval system of claim 44, wherein said accessor comprises a

The data storage and retrieval system of claim 44, wherein said data storage and

A method to remove a data storage medium from a data storage and retrieval system,

retrieval system further comprises a data storage device, wherein said computer readable program

removeably disposing said designated portable data storage medium in said data storage

- 2
- bar code reader and wherein said designated portable data storage medium comprises a bar code, wherein said computer readable program code further comprises a series of computer readable 3

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device; and

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method comprising the steps of:

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- the this arm the task that that

- 5
- said two or more accessors include a first accessor and one or more remaining accessors, said 6 7
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said work request;

adding said pending work entry to the work queue stored in each of said two or more

13	accessor controllers;
14	retrieving by said first accessor said designated data storage medium;
15	transporting said designated data storage medium to said import / export station;
16	disposing said new data storage medium in said import / export station;
17	removing said designated data storage medium from said inventory disposed in each of sa
18	two or more accessors; and
19	updating the work queue disposed in each of said two or more accessors to completion of
20	said pending work entry.

said

- said pending work entry.

 48. The method of claim 47, wherein said data storage and retrieval system further comprises an import / export controller, wherein said work request is provided by said import /
- 49. The method of claim 47, wherein said data storage and retrieval system further comprises an operator input station, wherein said work request is provided by said operator input station.
- 50. The method of claim 47, further comprising the step of determining identification information for said designated data storage medium.
- 51. The method of claim 50, wherein said data storage and retrieval system further comprises a data storage device, further comprising the step of removeably disposing said designated data storage medium in said data storage device.
- 52. The method of claim 50, wherein said designated data storage medium comprises a bar code and wherein said first accessor comprises a bar code reader, said method further comprising the step of reading said bar code using said bar code reader.
 - 53. A data storage and retrieval system comprising a computer useable medium having

export controller.

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2	computer readable program code disposed therein to remove a portable data storage media from a
3	data storage and retrieval system, wherein said data storage and retrieval system comprises a
4	plurality of storage cells, an import / export station, two or more moveable accessors in
5	communication with one another, and two or more accessor controllers, wherein each accessor
6	comprises an accessor controller, a work queue stored in that accessor controller and an inventory
7	stored in that accessor controller, and wherein said two or more accessors include a first accessor
8	and one or more remaining accessors, the computer readable program code comprising a series of
9	computer readable program steps to effect:
10 11	providing a work request to each of said two or more accessors, wherein said work request
11	comprises removing a designated data storage medium from said data storage and retrieval system;
12	creating by each of said two or more accessor controllers a pending work entry comprising
13	said work request;
14	adding said pending work entry to the work queue stored in each of said two or more
15	accessor controllers;
16	retrieving by said first accessor said designated data storage medium;
17	transporting said designated data storage medium to said import / export station;
18	disposing said new data storage medium in said import / export station;
19	removing said designated data storage medium from said inventory disposed in each of said
20	two or more accessors; and
21	updating the work queue disposed in each of said two or more accessors to completion of
22	said pending work entry.
1	54. The data storage and retrieval system of claim 53, wherein said data storage and

retrieval system further comprises an import / export controller, wherein said computer readable

- program code further comprises a series of computer readable program steps to effect providing said
 work request by said import / export controller.
 - 55. The data storage and retrieval system of claim 53, wherein said data storage and retrieval system further comprises an operator input station, wherein said computer readable program code further comprises a series of computer readable program steps to effect providing said work request by said operator input station.
 - 56. The data storage and retrieval system of claim 53, wherein said computer readable program code further comprises a series of computer readable program steps to effect determining identification information for said designated data storage medium.
 - 57. The data storage and retrieval system of claim 56, wherein said data storage and retrieval system further comprises a data storage device, wherein said computer readable program code further comprises a series of computer readable program steps to effect removeably disposing said designated data storage medium in said data storage device.
 - 58. The data storage and retrieval system of claim 56, wherein said designated data storage medium comprises a bar code and wherein said first accessor comprises a bar code reader, wherein said computer readable program code further comprises a series of computer readable program steps to effect reading said bar code using said bar code reader.
 - 59. A method to return a first accessor to service in a data storage and retrieval system, wherein said data storage and retrieval system comprises a garage, two or more moveable accessors in communication with one another, and two or more accessor controllers, wherein each accessor comprises an accessor controller, a work queue stored in that accessor controller, and an inventory stored in that accessor controller, and wherein said two or more accessors include a first accessor and one or more remaining accessors, and wherein said first accessor is moveably disposed in said

7	garage, said method comprising the steps of:
8	erasing the work queue disposed in said first accessor;
9	erasing the inventory disposed in said first accessor;
10	copying by the accessor controller disposed in said first accessor the work queue disposed in
11	one of said remaining accessors;
12	copying by the accessor controller disposed in said first accessor the inventory disposed in
13	one of said remaining accessors; and
14	signaling said remaining accessors by said first accessor that said first accessor is
15	operational.
1	60. A data storage and retrieval system comprising a computer useable medium having
1 2	computer readable program code disposed therein to return a first accessor to service, wherein said
3	data storage and retrieval system comprises a garage, two or more moveable accessors in
## 4	communication with one another, and two or more accessor controllers, wherein each accessor
# 5	comprises an accessor controller, a work queue stored in that accessor controller and an inventory
6	stored in that accessor controller, and wherein said two or more accessors include a first accessor
7	and one or more remaining accessors, and wherein said first accessor is moveably disposed in said
8	garage, the computer readable program code comprising a series of computer readable program
9	steps to effect:
10	erasing the work queue disposed in said first accessor;
11	erasing the inventory disposed in said first accessor;
12	copying by the accessor controller disposed in said first accessor the work queue disposed in
13	one of said remaining accessors;
14	copying by the accessor controller disposed in said first accessor the inventory disposed in

- one of said remaining accessors; and
- signaling said remaining accessors by said first accessor that said first accessor is
- 17 operational.